

WHAT IS CLAIMED IS:

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1. A mobile communications system,
comprising a plurality of base stations, and a radio
controller which controls each of said base stations,
wherein each said base station comprises,
10 a transmission power value reporting unit
configured to report to said radio controller a
downlink transmission power value and a communications
quality of a downlink from said base station itself to
a mobile station, and,
15 said radio controller comprises:
a cell-determining unit configured to
determine, out of cells each serviced by one of said
base stations, a cell having a good communications
quality;
20 a reference-value determining unit configured
to determine, as a reference value, a downlink
transmission power value of the base station which
services the determined cell;
an offset-value setting unit configured to
25 set, based on said communications quality, an offset
value corresponding to each said base station;
a target-value setting unit configured to set,
based on said reference value and said corresponding
offset value, a target value corresponding to each
30 said base station; and
a target-value reporting unit configured to
report said target value to said base station; and
each said base station further comprises,

a transmission power control unit configured to control the transmission power value of the downlink from said base station itself to said mobile station so as to cause the transmission power value to approach said target value.

10 2. A radio controller which controls a plurality of base stations configuring a mobile communications system, comprising:

15 a transmission power value obtaining unit configured to obtain a downlink transmission power value and a communications quality, reported from each of said base stations, of a downlink used in communications from said base station to a mobile station;

20 a cell-determining unit configured to determine, out of cells each serviced by one of said base stations, a cell having a good communications quality;

25 a reference-value determining unit configured to determine a downlink transmission power value of a base station which services the determined cell, as a reference value of the downlink transmission power value at each said base station;

30 an offset-value setting unit configured to set, based on said communications quality, an offset value corresponding to each said base station;

 a target-value setting unit configured to set, based on said reference value and said corresponding offset value, a target value corresponding to each

said base station; and

a target-value reporting unit configured to report said target value to each said base station.

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3. The radio controller as claimed in claim 2,

10 wherein the offset-value setting unit sets said offset value so as to cause said reference value to decrease with a larger degree of degradation in the communications quality of the cell serviced by said base station.

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4. The radio controller as claimed in claim 2,

20 wherein the offset-value setting unit sets the offset value for each said base station, based on a difference between the communications quality of the cell serviced by said base station, and the communications quality of the cell determined by said
25 cell-determining unit.

30 5. The radio controller as claimed in claim 2,

wherein the offset-value setting unit, in case of more than one base station, which services a

cell other than said cell having the good
communications quality determined by said cell-
determining unit, existing, sets said offset value for
each of said more than one base station to be
5 identical.

10 6. The radio controller as claimed in claim
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further comprising a table indicating a
corresponding relationship between said communications
quality and said offset value,

15 wherein said offset-value setting unit sets,
based on said table, the offset value for each said
base station.

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7. The radio controller as claimed in claim
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25 wherein the offset-value setting unit, in
case of a secondary scrambling code being used in the
communications using said downlink, causes an increase
of the offset value for a base station using said
downlink.

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8. The radio controller as claimed in claim 2,

further comprising a target-value increasing unit configured, in a case where a secondary scrambling code is used in the communications using said downlink, to cause an increase of the target value corresponding to a base station using said downlink.

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9. A base station which configures with one or more other base stations a mobile communications system, comprising:

15 a transmission power value reporting unit configured to report a transmission power value and a communications quality of a downlink used in communications from said base station itself to a mobile station, to a radio controller which controls each of said base stations configuring said mobile communications system;

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a target-value obtaining unit configured to obtain a target value, reported from said radio controller, as the transmission power value of the downlink at, out of said base stations configuring said mobile communications system, a base station servicing a cell having a good communications quality; and

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a transmission power control unit configured to control so as to cause the transmission power value of the downlink from said base station itself to said mobile station to approach said target value.

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10. A base station as claimed in claim 9,
further comprising:

5 a downlink communications quality obtaining
unit configured to obtain the communications quality,
reported from said mobile station, of said downlink;
and

10 a downlink communications quality reporting
unit configured to report the communications quality of
said downlink to said radio controller.

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11. A base station as claimed in claim 9,
further comprising,

20 a target-value increasing unit configured to
cause to increase, in a case where a secondary
scrambling code is used in the communications using
said downlink, the target value, and,

25 wherein said transmission power control unit
controls the transmission power value of the downlink
from said base station itself to said mobile station
so as to cause the transmission power value to
approach said target value caused to be increased by
said target-value increasing unit.

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12. A method of controlling, in a mobile
communications system comprising a plurality of base

stations, and a radio controller which controls said base stations, a transmission power value of each of said base stations,

5 wherein said each base station reports the downlink transmission power value and a communications quality of a downlink from said base station itself to a mobile station;

10 said radio controller determines, out of cells each serviced by one of said base stations, a cell having a good communications quality;

said radio controller determines, as a reference value, the downlink transmission power value of a base station which services the determined cell;

15 said radio controller sets, based on said communications quality, an offset value corresponding to each said base station;

said radio controller sets, based on said reference value and said corresponding offset value, a target value corresponding to each said base station;

20 said radio controller reports said corresponding target value to each said base station; and

25 each said base station controls the transmission power value of the downlink from said base station itself to said mobile station so as to cause the transmission power value to approach said target value.